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PEDIGREED NURSERY STOCK

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U. S. Department of Agriculture

OBJECT :

The Elimination of Unprofitable Trees and
The Selection of Productive Trees.

FACTS :

The Best Type of Tree bears the Highest
Quality of Fruit; this may be associated
with the Greatest Quantity of Fruit.

Quantity and High Quality mean *Profit*.



F. H. NUSBICKEL
GLENDORA :: CALIFORNIA

1915

*Are you investigating the TYPE
of Trees that you are planting or
are you buying your Trees by their
size?*

WHAT CONSTITUTES A PEDIGREE —

**Nursery Stock to be "Pedigreed"
must have:**

1. A performance record of weights of fruit production of each individual parent tree.
2. Systematic records proving such production.
- 3 Systematic records proving parentage of each individual tree in nursery.



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Selection of Productive Type the greatest Means of profit

It has long been recognized in the breeding of animals that improvement can only come through breeding from the individual animals of superior merit. So well established has this principle become in the breeding of our best types of cattle that, during the year, a young calf from a particularly productive mother was sold for \$20,000. The same principle has been recognized in the breeding of plants, and our present-day varieties of all kinds of plants have been made largely through the selection of productive parents. This principle was used in the growing of selected seed through the Middle West, Mr. A. D. Shamel, of the United States Department of Agriculture, being largely instrumental in the carrying on of this work. The productivity of carefully selected seed corn has become so well established that, for the best strains, large quantities of seed have sold at from \$2.00 to \$5.00 a bushel.

About five years ago Mr. Shamel was sent to Southern California by the United States Department of Agriculture to make a study of the possibilities of improvement in the productivity of our citrus trees through the selection of buds from trees of superior productivity. In comparison with annual crops, tree selection is most important, inasmuch as the type of a tree does not change in its lifetime of twenty-five to fifty years. As a result of Mr. Shamel's work people are

awakening to the tremendous possibilities for improvement through the careful selection of buds. A few have long been alive to the possibilities in this direction. Mr. J. P. Englehardt, a pioneer lemon grower of Glendora, is one of the few men who have watched the individual trees in their groves with sufficient care through a long period of years to know the best-producing individual trees in his own grove. His grove is small, and the trees have been watched over by Mr. Englehardt as a mother watches her children.

At the start of my work in the nursery business I became interested in the results being obtained by Mr. Shamel, and also became acquainted with the grove belonging to Mr. Englehardt. Through the co-operation of Mr. Englehardt I have been able to secure buds from the best trees in his grove for the propagation of my stock. Mr. Englehardt has given his aid, both in helping pick out the trees of superior productivity and in the selection of the bud wood.

During the past two years we have made further progress by securing, through the co-operation of the San Dimas Lemon Association, actual performance records of the trees in Mr. Englehardt's grove for the purpose of still further determining the best trees from which to use buds. These performance records are made by weighing the fruit from each individual tree, separately, at each picking.

In this way we have been able to produce nursery trees from the best trees in this, one of the best groves of the district, and probably of the state.

In making the performance records, the fact has been repeatedly demonstrated, both by Mr. Shamel and others, that the trees producing the greatest quantity of fruit generally produced the highest quality. In judging the value of any tree for propagating purposes we have always taken into account the quantity of fruit produced, and, in lemons, distribution throughout the year and the production of a large proportion of green fruit. These records are now becoming valuable.

We have for sale this year several thousand lemon trees, the parentage of which may be traced through these records to trees of superior productivity.

We feel that the care and extra expense entailed in keeping the record warrants us in expecting a very great increase in the productivity of trees propagated in this manner. There are some trees already coming into bearing which warrant this conclusion. Particularly some unproductive lemon trees which were rebudded from better trees at Corona, under the direction of Mr. Shamel.

We feel that a conservative estimate of the increased productivity of the groves, warrants the expectation of doubling the net returns of groves selected in this manner. We feel, also, that the intelligent buyer of young trees will expect to pay more money for trees propagated in this manner, and that he is entitled to an assurance that the buds were honestly selected from trees of superior merit. The production of your future grove is governed by the type of trees which you now plant. A wise choice now is an investment which will be a valuable asset to you and to the next generation.

If you want this kind of stock, we feel sure that we can interest you, and convince you that we have made the most careful selection, and that our trees are the best which are commercially available at the present time.

If you are planting trees, which class of trees do you wish to own six or ten years from planting?

The trees that bear at an early age, thereby reducing their cost?

Or

The trees that are slow to bear and then have to be rebudded with a loss of four years?

The trees that utilize their energy in producing fruit wood instead of "suckers"?

Or

The trees that waste their energy in producing long stretches of wood that bear a small quantity of inferior fruit, and require constant pruning?

The trees that will respond to fertilizer, water, and proper attention by giving a good quantity of high quality fruit,

Or

The trees that cannot respond to the best of attention because they are not of the right type that produces high quality fruit?

The trees that produce \$1,000 and up per acre net,

Or

The trees that do not pay for their water and care?

Progressive business farmers are finding it pays to weigh the fruit from each tree separately in their groves in order to know which trees are profitable. Their experience tells them that by rebudding the unprofitable trees with fruit buds from excellent bearers they can greatly increase their profits without any greater culture expense. In other words, it costs no more and is really less effort to maintain profitable trees than it is to care for "drones." These "drones" should be eliminated right at the start when the grove is planted. We would like to show you the performance records of the parent trees of our nursery. These trees are bearing big crops of high quality fruit. We can take you to each individual parent and let you investigate for yourself.

Where so much care and attention is required one can raise only a limited amount of this pedigree nursery stock.

In addition to this pedigree stock I have a limited amount of nursery stock propagated from excellent parent trees of which no performance records have been kept, but the buds of which were very carefully selected. The price of these trees is lower. WE MAKE A DISTINCTION BETWEEN PEDIGREE AND SELECTED STOCK.



I have for spring delivery a few thousand
Eureka Lemons,
Washington Navels,
Valencias,
March Seedless Grapefruit,
A few Budded Avocados.

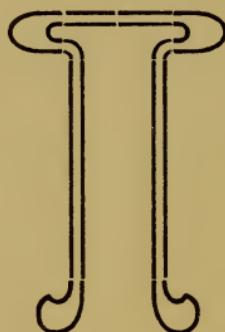
Buds from performance trees for rebudding
old orchards.

My stock is in a healthy condition; clean,
straight, vigorous.

Write for my prices. They are reasonable.

WITH increased acreage coming into bearing *common* trees may produce at a loss, when trees of high productivity will show a handsome profit. ❁ The difference between the cost of production and selling price is your profit or your loss. ❁ The best type of tree produces the greatest quantity of high quality fruit at the least cost.

Are you planting with a fair chance of profit or are you planting a loss?



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